

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
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Application Serial Number: 09/211,297

Source: _____

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IFW16

RAW SEQUENCE LISTING

DATE: 05/03/2005

PATENT APPLICATION: US/09/211,297

TIME: 13:27:53

Input Set : N:\Cr3\RULE60\09211297.raw.txt

Output Set: N:\CRF4\05032005\I211297.raw

SEQUENCE LISTING

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3 (1) GENERAL INFORMATION:
5     (i) APPLICANT: Boyle, William J.
7     (ii) TITLE OF INVENTION: Osteoprotegerin Binding Proteins
9     (iii) NUMBER OF SEQUENCES: 39
11    (iv) CORRESPONDENCE ADDRESS:
12        (A) ADDRESSEE: Amgen Inc.
13        (B) STREET: One Amgen Center Drive
14        (C) CITY: Thousand Oaks
15        (D) STATE: California
16        (E) COUNTRY: USA
17        (F) ZIP: 91320-1789
19    (v) COMPUTER READABLE FORM:
20        (A) MEDIUM TYPE: Floppy disk
21        (B) COMPUTER: IBM PC compatible
22        (C) OPERATING SYSTEM: PC-DOS/MS-DOS
23        (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
25    (vi) CURRENT APPLICATION DATA:
C--> 26        (A) APPLICATION NUMBER: US/09/211,297
C--> 27        (B) FILING DATE: 14-Dec-1998
W--> 33        (C) CLASSIFICATION: 514
C--> 30    (vii) PRIOR APPLICATION DATA:
31        (A) APPLICATION NUMBER: US/08/880,855
32        (B) FILING DATE: 23-06-1997
35    (viii) ATTORNEY/AGENT INFORMATION:
36        (A) NAME: Winter, Robert B.
37        (C) REFERENCE/DOCKET NUMBER: A-451A
40 (2) INFORMATION FOR SEQ ID NO: 1:
42     (i) SEQUENCE CHARACTERISTICS:
43         (A) LENGTH: 8 amino acids
44         (B) TYPE: amino acid
45         (C) STRANDEDNESS: single
46         (D) TOPOLOGY: linear
48     (ii) MOLECULE TYPE: protein
53     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
55     Asp Pro Asn Arg Gln Asp Ile Asp
56     1           5
58 (2) INFORMATION FOR SEQ ID NO: 2:
60     (i) SEQUENCE CHARACTERISTICS:
61         (A) LENGTH: 52 base pairs
62         (B) TYPE: nucleic acid
63         (C) STRANDEDNESS: single
64         (D) TOPOLOGY: linear

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66      (ii) MOLECULE TYPE: cDNA
71      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
73 GTTCTCCTCA TATGGATCCA AACCGTATTT CTGAAGACAG CACTCACTGC TT      52
75 (2) INFORMATION FOR SEQ ID NO: 3:
77      (i) SEQUENCE CHARACTERISTICS:
78          (A) LENGTH: 37 base pairs
79          (B) TYPE: nucleic acid
80          (C) STRANDEDNESS: single
81          (D) TOPOLOGY: linear
83      (ii) MOLECULE TYPE: cDNA
88      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
90 TACGCACTCC GCGGTTAGTC TATGTCCTGA ACTTTGA      37
92 (2) INFORMATION FOR SEQ ID NO: 4:
94      (i) SEQUENCE CHARACTERISTICS:
95          (A) LENGTH: 8 amino acids
96          (B) TYPE: amino acid
97          (C) STRANDEDNESS: single
98          (D) TOPOLOGY: linear
100     (ii) MOLECULE TYPE: protein
105     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
107     Glu Asn Ala Gly Gln Asp Ile Asp
108     1          5
110 (2) INFORMATION FOR SEQ ID NO: 5:
112     (i) SEQUENCE CHARACTERISTICS:
113         (A) LENGTH: 51 base pairs
114         (B) TYPE: nucleic acid
115         (C) STRANDEDNESS: single
116         (D) TOPOLOGY: linear
118     (ii) MOLECULE TYPE: cDNA
123     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
125 ATTTGATTCT AGAAGGAGGA ATAACATATG CATGAAAACG CAGGTCTGCA G      51
127 (2) INFORMATION FOR SEQ ID NO: 6:
129     (i) SEQUENCE CHARACTERISTICS:
130         (A) LENGTH: 42 base pairs
131         (B) TYPE: nucleic acid
132         (C) STRANDEDNESS: single
133         (D) TOPOLOGY: linear
135     (ii) MOLECULE TYPE: cDNA
140     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
142 TATCCGCGGA TCCTCGAGTT AGTCTATGTC CTGAACTTTG AA      42
144 (2) INFORMATION FOR SEQ ID NO: 7:
146     (i) SEQUENCE CHARACTERISTICS:
147         (A) LENGTH: 8 amino acids
148         (B) TYPE: amino acid
149         (C) STRANDEDNESS: single
150         (D) TOPOLOGY: linear
152     (ii) MOLECULE TYPE: protein
157     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
159     Glu Asp Thr Leu Gln Asp Ile Asp

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160      1      5
162 (2) INFORMATION FOR SEQ ID NO: 8:
164      (i) SEQUENCE CHARACTERISTICS:
165          (A) LENGTH: 54 base pairs
166          (B) TYPE: nucleic acid
167          (C) STRANDEDNESS: single
168          (D) TOPOLOGY: linear
170      (ii) MOLECULE TYPE: cDNA
175      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
177 ATTTGATTCT AGAAGGAGGA ATAACATATG TCTGAAGACA CTCTGCCGGA CTCC      54
179 (2) INFORMATION FOR SEQ ID NO: 9:
181      (i) SEQUENCE CHARACTERISTICS:
182          (A) LENGTH: 9 amino acids
183          (B) TYPE: amino acid
184          (C) STRANDEDNESS: single
185          (D) TOPOLOGY: linear
187      (ii) MOLECULE TYPE: protein
192      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
194 Lys Gln Ala Phe Gln Gln Asp Ile Asp
195      1      5
197 (2) INFORMATION FOR SEQ ID NO: 10:
199      (i) SEQUENCE CHARACTERISTICS:
200          (A) LENGTH: 48 base pairs
201          (B) TYPE: nucleic acid
202          (C) STRANDEDNESS: single
203          (D) TOPOLOGY: linear
205      (ii) MOLECULE TYPE: cDNA
210      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
212 ATTTGATTCT AGAAGGAGGA ATAACATATG AAACAAGCTT TTCAGGGG      48
214 (2) INFORMATION FOR SEQ ID NO: 11:
216      (i) SEQUENCE CHARACTERISTICS:
217          (A) LENGTH: 10 amino acids
218          (B) TYPE: amino acid
219          (C) STRANDEDNESS: single
220          (D) TOPOLOGY: linear
222      (ii) MOLECULE TYPE: protein
227      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
229 Met Lys Glu Leu Gln His Gln Asp Ile Asp
230      1      5      10
232 (2) INFORMATION FOR SEQ ID NO: 12:
234      (i) SEQUENCE CHARACTERISTICS:
235          (A) LENGTH: 51 base pairs
236          (B) TYPE: nucleic acid
237          (C) STRANDEDNESS: single
238          (D) TOPOLOGY: linear
240      (ii) MOLECULE TYPE: cDNA
245      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:
247 ATTTGATTCT AGAAGGAGGA ATAACATATG AAAGAACTGC AGCACATTGT G      51
249 (2) INFORMATION FOR SEQ ID NO: 13:

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251      (i) SEQUENCE CHARACTERISTICS:
252          (A) LENGTH: 10 amino acids
253          (B) TYPE: amino acid
254          (C) STRANDEDNESS: single
255          (D) TOPOLOGY: linear
257      (ii) MOLECULE TYPE: protein
262      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:
264      Met Gln Arg Phe Ser Gly Gln Asp Ile Asp
265      1          5          10
267 (2) INFORMATION FOR SEQ ID NO: 14:
269      (i) SEQUENCE CHARACTERISTICS:
270          (A) LENGTH: 51 base pairs
271          (B) TYPE: nucleic acid
272          (C) STRANDEDNESS: single
273          (D) TOPOLOGY: linear
275      (ii) MOLECULE TYPE: cDNA
280      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:
282 ATTTGATTCT AGAAGGAGGA ATAACATATG CAGCGTTTCT CTGGTGCTCC A      51
284 (2) INFORMATION FOR SEQ ID NO: 15:
286      (i) SEQUENCE CHARACTERISTICS:
287          (A) LENGTH: 9 amino acids
288          (B) TYPE: amino acid
289          (C) STRANDEDNESS: single
290          (D) TOPOLOGY: linear
292      (ii) MOLECULE TYPE: protein
297      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:
299      Met Glu Gly Ser Trp Gln Asp Ile Asp
300      1          5
302 (2) INFORMATION FOR SEQ ID NO: 16:
304      (i) SEQUENCE CHARACTERISTICS:
305          (A) LENGTH: 40 base pairs
306          (B) TYPE: nucleic acid
307          (C) STRANDEDNESS: single
308          (D) TOPOLOGY: linear
310      (ii) MOLECULE TYPE: cDNA
315      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:
317 GTTCTCCTCA TATGGAAGGT TCTTGTTTG ATGTGGCCCA      40
319 (2) INFORMATION FOR SEQ ID NO: 17:
321      (i) SEQUENCE CHARACTERISTICS:
322          (A) LENGTH: 9 amino acids
323          (B) TYPE: amino acid
324          (C) STRANDEDNESS: single
325          (D) TOPOLOGY: linear
327      (ii) MOLECULE TYPE: protein
332      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:
334      Met Arg Gly Lys Pro Gln Asp Ile Asp
335      1          5
337 (2) INFORMATION FOR SEQ ID NO: 18:
339      (i) SEQUENCE CHARACTERISTICS:

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340      (A) LENGTH: 44 base pairs
341      (B) TYPE: nucleic acid
342      (C) STRANDEDNESS: single
343      (D) TOPOLOGY: linear
345      (ii) MOLECULE TYPE: cDNA
350      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:
352 GTTCTCCTCA TATGCGTGGT AAACCTGAAG CTCAACCATT TGCA      44
354 (2) INFORMATION FOR SEQ ID NO: 19:
356      (i) SEQUENCE CHARACTERISTICS:
357          (A) LENGTH: 9 amino acids
358          (B) TYPE: amino acid
359          (C) STRANDEDNESS: single
360          (D) TOPOLOGY: linear
362      (ii) MOLECULE TYPE: protein
367      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 19:
369 Met Lys Pro Glu Ala Gln Asp Ile Asp
370 1          5
372 (2) INFORMATION FOR SEQ ID NO: 20:
374      (i) SEQUENCE CHARACTERISTICS:
375          (A) LENGTH: 53 base pairs
376          (B) TYPE: nucleic acid
377          (C) STRANDEDNESS: single
378          (D) TOPOLOGY: linear
380      (ii) MOLECULE TYPE: cDNA
385      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 20:
387 GTTCTCCTCA TATGAAACCT GAAGCTCAAC CATTTGCACA CCTCACCATC AAT      53
389 (2) INFORMATION FOR SEQ ID NO: 21:
391      (i) SEQUENCE CHARACTERISTICS:
392          (A) LENGTH: 9 amino acids
393          (B) TYPE: amino acid
394          (C) STRANDEDNESS: single
395          (D) TOPOLOGY: linear
397      (ii) MOLECULE TYPE: protein
402      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 21:
404 Met His Leu Thr Ile Gln Asp Ile Asp
405 1          5
407 (2) INFORMATION FOR SEQ ID NO: 22:
409      (i) SEQUENCE CHARACTERISTICS:
410          (A) LENGTH: 65 base pairs
411          (B) TYPE: nucleic acid
412          (C) STRANDEDNESS: single
413          (D) TOPOLOGY: linear
415      (ii) MOLECULE TYPE: cDNA
420      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 22:
422 GTTCTCCTCA TATGCATTTA ACTATTAACG CTGCATCTAT CCCATCGGGT TCCCATAAAG      60
424 TCACT      65
426 (2) INFORMATION FOR SEQ ID NO: 23:
428      (i) SEQUENCE CHARACTERISTICS:
429          (A) LENGTH: 9 amino acids

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VERIFICATION SUMMARY

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Input Set : N:\Crf3\RULE60\09211297.raw.txt

Output Set: N:\CRF4\05032005\I211297.raw

L:26 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:27 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:30 M:220 C: Keyword misspelled or invalid format, [(vii) PRIOR APPLICATION DATA:]
L:33 M:238 W: Alpha Fields not Ordered, Reordered [(C) CLASSIFICATION:] of (1)(vi)